



LOS ANGELES COUNTY WATERWORKS DISTRICTS

2005 ANNUAL WATER QUALITY REPORT

PETER PITCHESS WAYSIDE HONOR RANCHO WATER SYSTEM

The Los Angeles County Sheriff's Department and the Los Angeles County Waterworks Districts (LACWWD) are pleased to provide you with the 2005 Annual Water Quality Report for the Peter Pitchess Wayside Honor Rancho facility. We are committed to serving you a reliable supply of high quality water that meets State and Federal standards. Our on-going efforts include increasing the capacity and reliability of the water system and ensuring the quality of our water supply through rigorous water quality testing.

There are two drinking water quality standards, Primary and Secondary Drinking Water Standards. Primary Drinking Water Standards are set for substances that are thought to pose a health risk at certain levels and are enforceable by law. Secondary Drinking Water Standards are set for substances that do not pose a health risk and are intended to control the aesthetic qualities related to the public acceptance of drinking water. Secondary Standards are not enforceable by law. We are pleased to inform you that during all of 2005, your drinking water met or exceeded all Primary and Secondary Drinking Water Standards.

This report is intended to provide you with a better understanding of your drinking water. It contains information about where your water comes from, how your water is treated and monitored, and what contaminants may be present in your water. Moreover, we have included source water assessments, results from our water quality testing, and general information about your drinking water.

Este informe contiene informacion muy importante sobre su agua potable. Traduzcalo o hable con alguien que lo entienda bien.

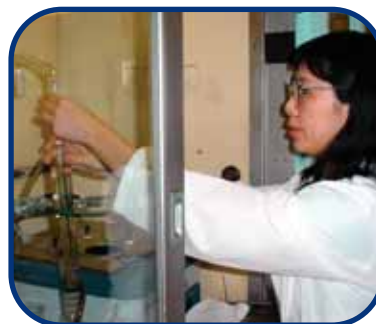
WATER QUALITY MONITORING

To ensure that water is safe to drink, the United States Environmental Protection Agency (USEPA) and the California Department of Health Services (DHS) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems.



To meet these regulations, the LACWWD oversees water quality monitoring for the system. LACWWD has contracted with a State-certified laboratory to conduct all water quality analyses. Analyses are performed on water samples taken from the source wells and the distribution system. The wells are tested for chemical, physical, radiological, and bacteriological parameters as required by Federal and State regulations. We also test for additional organic and inorganic chemicals that are not yet regulated.

Key locations within the distribution system have been selected to monitor water quality. Every week, the distribution system is tested for bacteria, and disinfectant levels to ensure that you receive safe and high quality drinking water. The distribution system is also tested for color, odor,



temperature, and turbidity monthly, and disinfection byproducts on a quarterly basis. All tests are conducted in a State-certified laboratory using Federally approved testing methods. Our contracted laboratory is equipped with state-of-the-art instruments capable of detecting contaminants at very minute quantities.

CONTACT INFORMATION

The Los Angeles County Sheriff's Department welcome your comments and participation in the preparation of our Annual Water Quality Report. For questions or comments regarding water quality or this report, please contact Mr. Scott McIntyre at (661) 295-8025. To view this report on the internet, please visit the Los Angeles County Department of Public Works Waterworks website at <http://ladpw.org/wsm/waterqualityrpt.cfm>.

THE SOURCE OF YOUR WATER AND ITS TREATMENT



During 2005, the water served in the Peter Pitchess Wayside Honor Rancho (PPWHR) was supplied entirely from groundwater. The groundwater is extracted from the underlying basin by wells that are owned and operated by PPWHR. PPWHR also has an interconnection with the Castaic Lake Water Agency (CLWA). CLWA gets its water from the Sacramento River/San Joaquin Delta via the State Water Project. The interconnection with CLWA was not used in 2005.

Groundwater is not treated except for disinfection. Chlorine is added in controlled amounts to well water to kill any disease-causing microbes (germs) that could grow on the walls of the pipes that carry drinking water throughout the system. Surface water on the other hand is treated at CLWA treatment plants which employ coagulation, flocculation, sedimentation and filtration to purify the water. Filtration is important because besides making the water clear, it removes some germs that are difficult to kill. Finally, the water is disinfected to kill any remaining germs and to prevent their regrowth in the distribution pipes.



SOURCE WATER ASSESSMENT

A source water assessment was conducted for Well No. 01 (standby), Well No. 02 (standby), Well No. 10, Well No. 15, and Well No. 17 of the PPWHR water system in August 2002.

These wells are considered most vulnerable to the activities shown on the accompanying table, although no associated contaminants have been detected in the water produced by these wells.

A copy of the complete assessment may be viewed at: DHS Los Angeles District Office, 1449 West Temple Street Room 202, Los Angeles CA, 90026, or by contacting Mr. Jeff O'Keefe at (213) 580-5723.

VULNERABLE WELLS	POSSIBLE CONTAMINATING ACTIVITIES
WELL 01	WELLS – OIL GAS, GEOTHERMAL
WELL 02	WELLS – OIL GAS, GEOTHERMAL CHEMICAL/PETROLEUM PIPELINES
WELL 10	TRANSPORTATION CORRIDORS – FREEWAYS/STATE HIGHWAYS
WELL 15	CHEMICAL/PETROLEUM PIPELINES
WELL 17	CHEMICAL/PETROLEUM PIPELINES



WATER QUALITY DATA

The table below lists all drinking water contaminants that were detected during the 2005 calendar year. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The District tests weekly for bacteria in the distribution system and none was detected during 2005. Trihalomethanes, haloacetic acids, and chlorine are also tested for regularly in the distribution system and are reported below. The State requires us to monitor certain contaminants less frequently than once per year because the concentrations of these contaminants do not change frequently. Some of the data, though representative of the water quality, may be more than one year old.



PARAMETER	PHG or MCLG	MCL	CHLORINATED GROUNDWATER		TYPICAL SOURCE OF CONSTITUENT
			RANGE OF DETECTION	AVERAGE LEVEL	
PRIMARY DRINKING WATER STANDARDS					
INORGANIC CONTAMINANTS					
ARSENIC (ppb)	0.004	50	ND-2.95	1.18	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
FLUORIDE (ppm)	1	2	0.60-0.66	0.62	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
NITRATE - AS NO ₃ (ppm)	45	45	3.33-5.62	4.25	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
SELENIUM (ppb)	50	50	ND-10.60	4.24	Discharge from petroleum, glass, and metal refineries; erosion of natural deposits; discharge from mines and chemical manufacturers; runoff from livestock lots (feed additive)
RADIOACTIVE CONTAMINANTS					
GROSS ALPHA PARTICLE ACTIVITY (pCi/L)	0	15	0.45-3.84	2.47	Erosion of natural deposits
COMBINED RADIUM (226 & 228) (pCi/L)	0	5	ND-3.00	1.21	Erosion of natural deposits
URANIUM (pCi/L)	0.43	20	0.48-2.39	1.61	Erosion of natural deposits
SECONDARY DRINKING WATER STANDARDS					
GENERAL MINERAL CONSTITUENTS					
BICARBONATE ALKALINITY (ppm)	NS	NS	219-231	226.20	Leaching from natural deposits
CALCIUM (ppm)	NS	NS	80.20-88.20	85	Leaching from natural deposits
MAGNESIUM (ppm)	NS	NS	31.60-38.90	35.98	Leaching from natural deposits
SODIUM (ppm)	NS	NS	66.30-68.40	67.56	Leaching from natural deposits
TOTAL HARDNESS (ppm)	NS	NS	330-380	360	Leaching from natural deposits
pH (Units)	NS	NS	7.68-7.75	7.71	Natural acidity/alkalinity of water
GENERAL PHYSICAL PARAMETERS					
TURBIDITY (Units)	NS	5 NTU	0.10-0.16	0.12	Soil runoff

-- No sample taken

PARAMETER	PHG or MCLG	MCL	CHLORINATED GROUNDWATER		TYPICAL SOURCE OF CONSTITUENT
			RANGE OF DETECTION	AVERAGE LEVEL	
ADDITIONAL PARAMETERS					
CORROSIVITY (SI)	NS	NON-CORROSIVE	0.39-0.41	0.40	Natural or industrially-influenced balance of hydrogen, carbon and oxygen in the water; affected by temperature and other factors.
TOTAL DISSOLVED SOLIDS (TDS) (ppm)	NS	1000	644-660	650.40	Runoff/leaching from natural deposits
SPECIFIC CONDUCTANCE (µmhos/cm)	NS	1600	996-1030	1009.60	Substances that form ions in water; seawater influence
CHLORIDE (ppm)	NS	500	62.30-84.90	75.86	Runoff/leaching from natural deposits; industrial wastes
SULFATE (ppm)	NS	500	186-227	210.60	Runoff/leaching from natural deposits; industrial wastes
UNREGULATED CONTAMINANTS					
BORON (ppb)	NS	1,000 (NOTIFICATION LEVEL)	410-430	420	Some men who drink water containing boron in excess of the notification level over many years may experience reproductive effects, based on studies in dogs
VANADIUM (ppb)	NS	50 (NOTIFICATION LEVEL)	ND-13	6.50	The babies of some pregnant women who drink water containing vanadium in excess of the notification level may have an increased risk of developmental effects, based on studies in laboratory animals

DISTRIBUTION SYSTEM WATER QUALITY						
DISINFECTANTS & DISINFECTION BY-PRODUCTS	PHG or [MRDLG]	MCL or [MRDL]	RANGE OF DETECTION	HIGHEST 4-QUARTERLY AVERAGE		TYPICAL SOURCE OF CONSTITUENT
TOTAL CHLORINE (ppm)	[4] as Cl ₂	[4] as Cl ₂	0.60-0.91	0.74		Drinking water disinfectant added for treatment
TOTAL TRIHALOMETHANES (ppb)	NS	80	ND-18.40	18.50		Byproduct of drinking water chlorination
HALOACETIC ACIDS (ppb)	NS	60	1.30-5.10	3.10		Byproduct of drinking water chlorination
RESIDENTIAL TAP WATER QUALITY						
LEAD AND COPPER	PHG	ACTION LEVEL	RANGE OF DETECTION	90th % LEVEL	NUMBER OF SITES	TYPICAL SOURCE OF CONSTITUENT
COPPER (ppm)	0.17	1.3	ND-0.46	0.09	38	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.
LEAD (ppb)	2	15	ND	ND	38	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits.

TERMS AND ABBREVIATIONS USED IN THE WATER QUALITY DATA TABLE		
<p>Maximum Contaminant Level (MCL) is the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the PHGs and MCLGs as is economically or technologically feasible.</p> <p>Maximum Contaminant Level Goal (MCLG) is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the USEPA.</p> <p>Public Health Goal (PHG) is the level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.</p> <p>Maximum Residual Disinfectant Level (MRDL) is the level of a disinfectant added for water treatment that may not be exceeded at the consumer's tap.</p>	<p>Maximum Residual Disinfectant Level Goal (MRDLG) is the level of a disinfectant added for water treatment below which there is no known or expected risk to health. MRDLs are set by the USEPA.</p> <p>Primary Drinking Water Standards (PDWS) are MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.</p> <p>Regulatory Action Level (AL) is the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.</p> <p>Treatment Technique (TT) is a required process intended to reduce the level of a contaminant in drinking water.</p>	
<p>ppm = parts per million (milligrams per liter)</p> <p>ppb = parts per billion (micrograms per liter)</p> <p>pCi/L = picoCuries per liter</p>	<p>NA = Not Applicable</p> <p>ND = None Detected</p> <p>NS = No Standard</p>	<p>NTU = Nephelometric Turbidity Unit</p> <p>SI = Saturation Index (Langelier)</p> <p>µmhos/cm = micromhos per centimeter</p>



CONTAMINANTS THAT MAY BE PRESENT IN WATER

The sources of drinking water include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over land surface or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or human activity. Contaminants that may be present in source water include:

Microbial contaminants, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

Inorganic contaminants, such as salts and metals, that can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential use.

Organic chemical contaminants, including synthetic and volatile organic chemicals, that are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff and septic systems.

Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure tap water is safe to drink, the USEPA and DHS prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. DHS regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline (1-800-426-4791).

THE QUALITY OF YOUR WATER

Lead and Copper: During 2003, we conducted lead and copper sampling from several high-risk homes in the Region as required by DHS. The 90th percentile result for copper was 0.09 milligrams per liter and below detectable levels for lead. These results are well below the regulatory Action Levels for lead and copper in drinking water. The next round of lead and copper monitoring is scheduled for 2006.

Trihalomethanes: Some people who use water containing trihalomethanes in excess of the MCL over many years may experience liver, kidney, or central nervous system problems, and may have an increased risk of getting cancer.

Cryptosporidium: Cryptosporidium is a microscopic organism that causes a gastro-intestinal disease called cryptosporidiosis which may cause diarrhea, headache, abdominal cramps, nausea, vomiting, and low grade fever. The infectious microorganism can be transmitted through ingestion of contaminated food, drinking water, or by direct contact with the fecal matter of infected persons or animals.

The chance of its presence in the water supply is extremely small because it is being monitored on a regular basis and very low levels, hundreds of times lower than those reported in other parts of the Country, have been detected in untreated water. Multiple-barrier treatment which includes coagulation, flocculation, filtration, and disinfection at CLWA treatment plants further minimize the chance of its presence in treated water.

While the general public is at a very low risk of contracting Cryptosporidium, immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. USEPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risks of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

BOTTLED WATER, HOME TREATMENT DEVICES, AND SOFTENERS

Bottled water need not be purchased for health reasons, since tap water meets the Federal and State drinking water standards. If taste is an issue, bottled water might be the answer, but keep in mind that it is over 1,000 times more expensive than tap water.

Installation of a home treatment unit is a personal matter. These devices are not required to make the water meet the Federal and State drinking water standards. In fact, if not properly maintained, these devices may actually cause water quality problems. However, some people are concerned about the taste of their drinking water. If taste is an issue, then a home treatment unit might be appropriate. All units require maintenance and should be bought from a reputable dealer. They should also be tested and validated against accepted performance standards like those used by the National Sanitation Foundation (NSF).

Hardness in drinking water is caused by two non-toxic minerals: calcium and magnesium. Hard water reduces the amount of lather or suds produced by soap. Hard water also tends to leave deposits such as rings in the bathtub, scales on cooking pots and irons, and spots on glassware. At a hardness level above 120 milligrams per liter, a water softener might be considered to reduce deposits in the hot water system and to make washing easier. Distilled water may be used in place of drinking water in irons to prevent deposits.

Water softeners generally replace the non-toxic hardness minerals in the water with sodium. Although the amount of sodium produced is relatively insignificant in comparison to the sodium found in food, people with sodium restricted diets should consult their doctor or install a softener for their hot water supply only.



WATER CONSERVATION INFORMATION

Water is an essential resource, not a commodity. In Southern California, our arid climate limits our fresh water supply. Conserving water, or being “water wise,” protects our natural water supplies, reduces the risk of water shortages during spring and summer months, and reduces your water bill. Water conservation is not as complicated or demanding as you might think.

In addition to protecting the quality of water delivered to you, we also promote and implement water conservation programs in your area. You can conserve water at home and save money by observing the following practical guidelines:

- Install a low flow toilet or use a water displacement device in your toilet and save 2 to 6 gallons of water for every flush. Check the flapper in your toilet to make sure water is not constantly leaking into the toilet bowl.
- Run your dishwasher or washing machine with only full loads and save 30 to 800 gallons every month.
- Install a low flow showerhead and save a gallon of water during each minute of your shower.
- Sweep your sidewalks and driveways instead of hosing them and save up to 4 gallons of water per minute that you would have spent using the hose.
- Check your pipes and faucets regularly for leaks and repair them promptly. Call our office at 1-800-675-4357 to report leaks in our system.
- Visit www.h2ouse.org or www.ladpw.org/wwwd/conervation/ for practical “how-to” information on water conservation.